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with cover layer:  $\lambda' = \lambda / n_0$   
 $NA' = \sin \theta' = \sin \theta / n_0 = NA / n_0$   
 resolving power:  $\lambda' / (2NA') = \lambda / (2NA)$

air-incident  
 $NA = \sin \theta$   
 resolving power:  $\lambda / (2NA)$

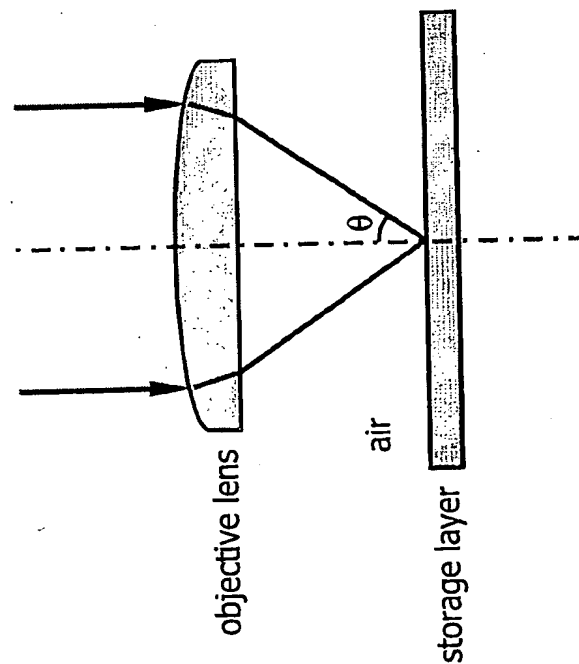


FIG.1A

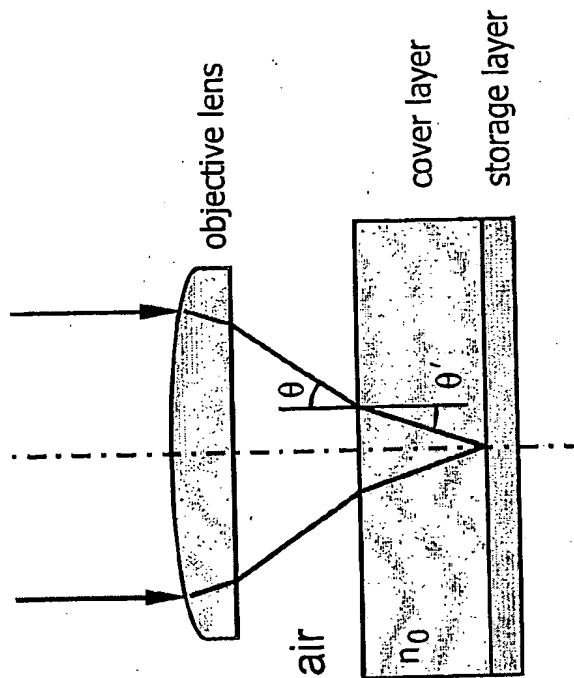


FIG.1B

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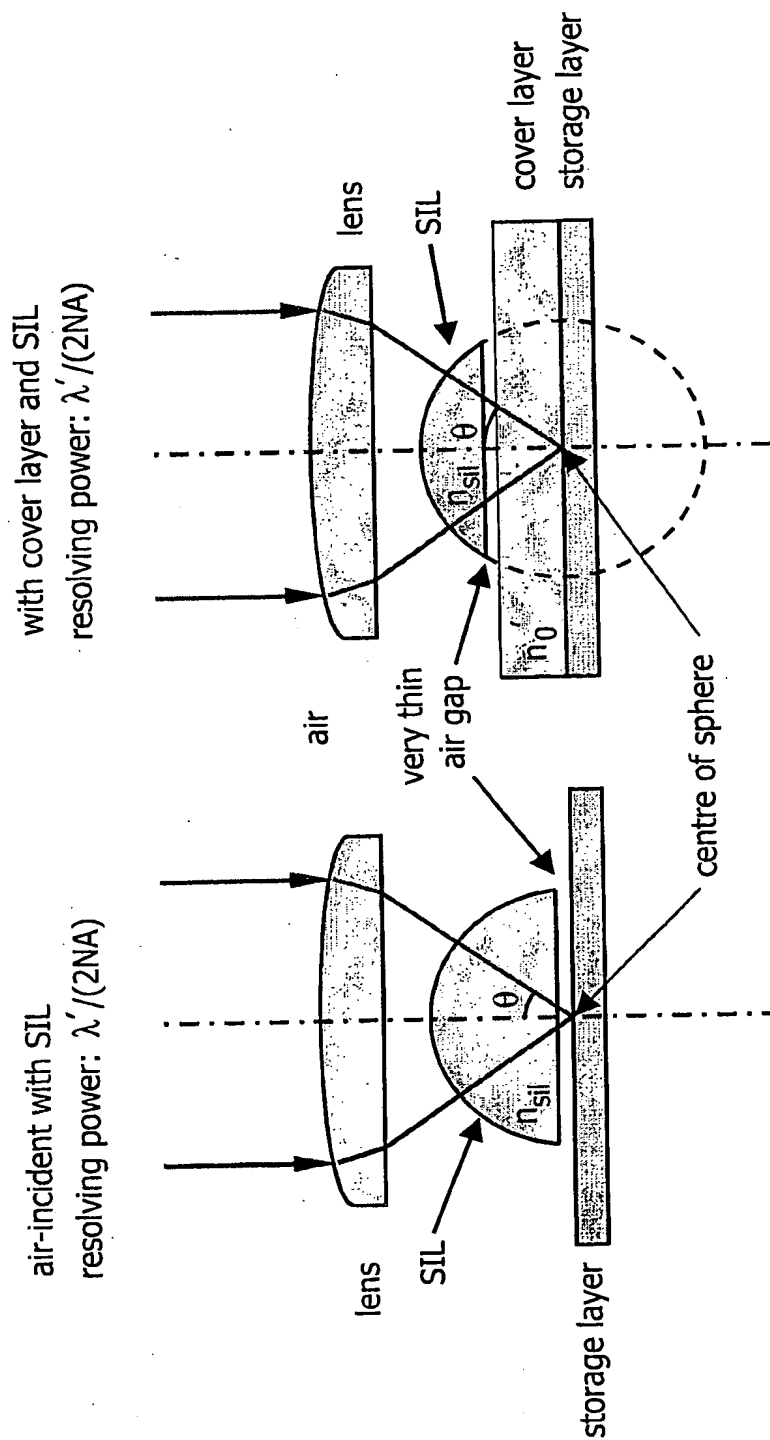


FIG.2B

FIG.2A

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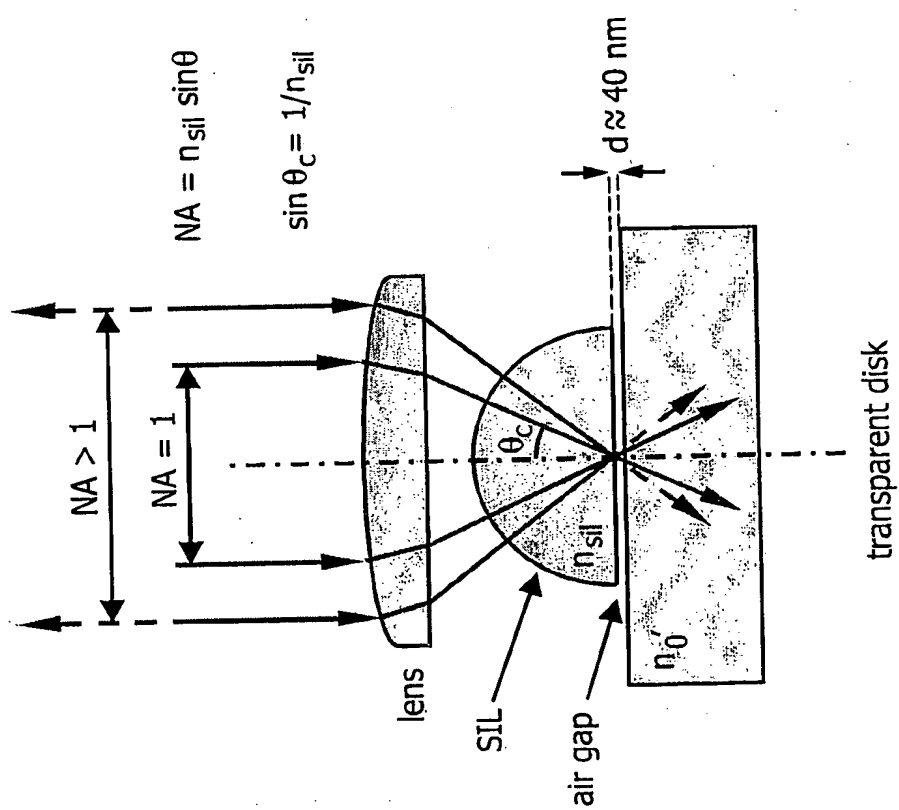


FIG.3

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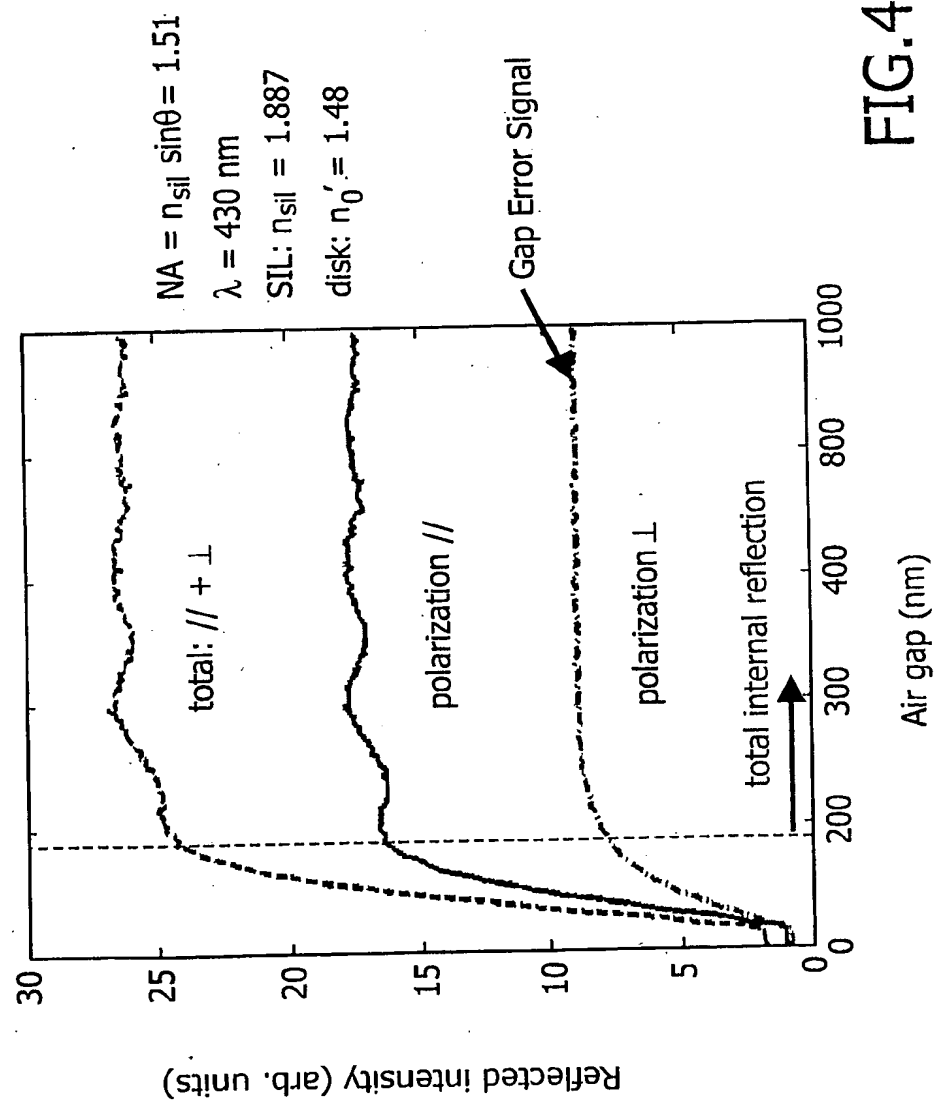


FIG.4

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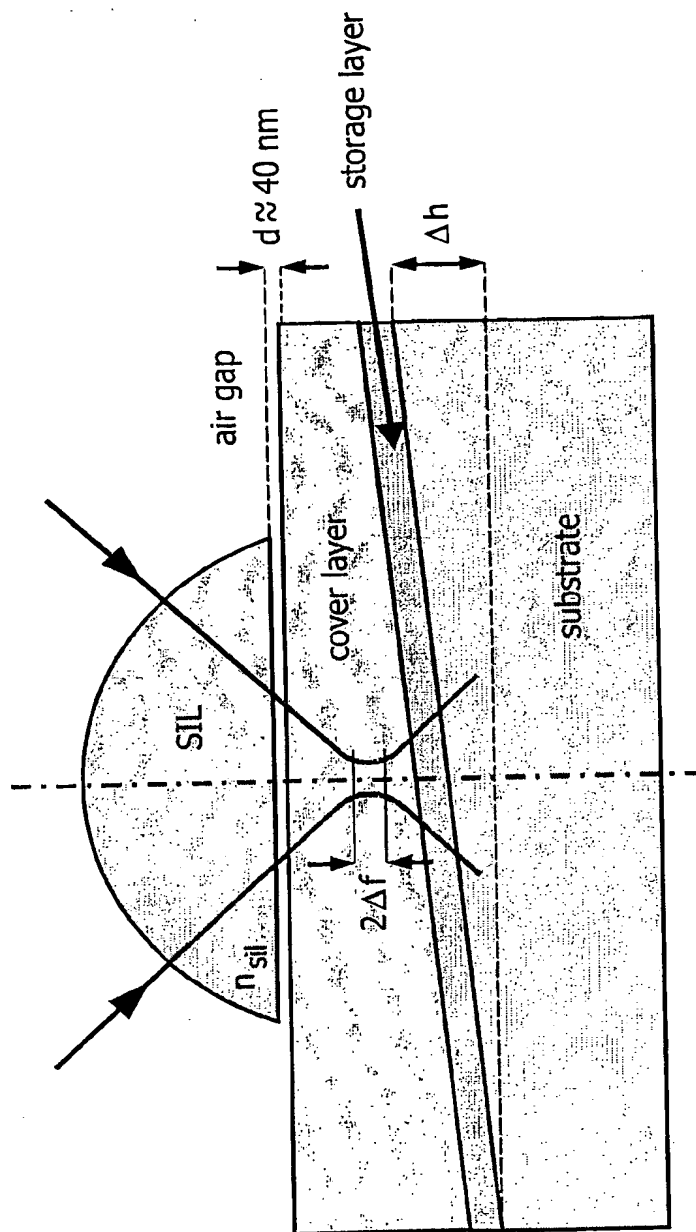


FIG.5

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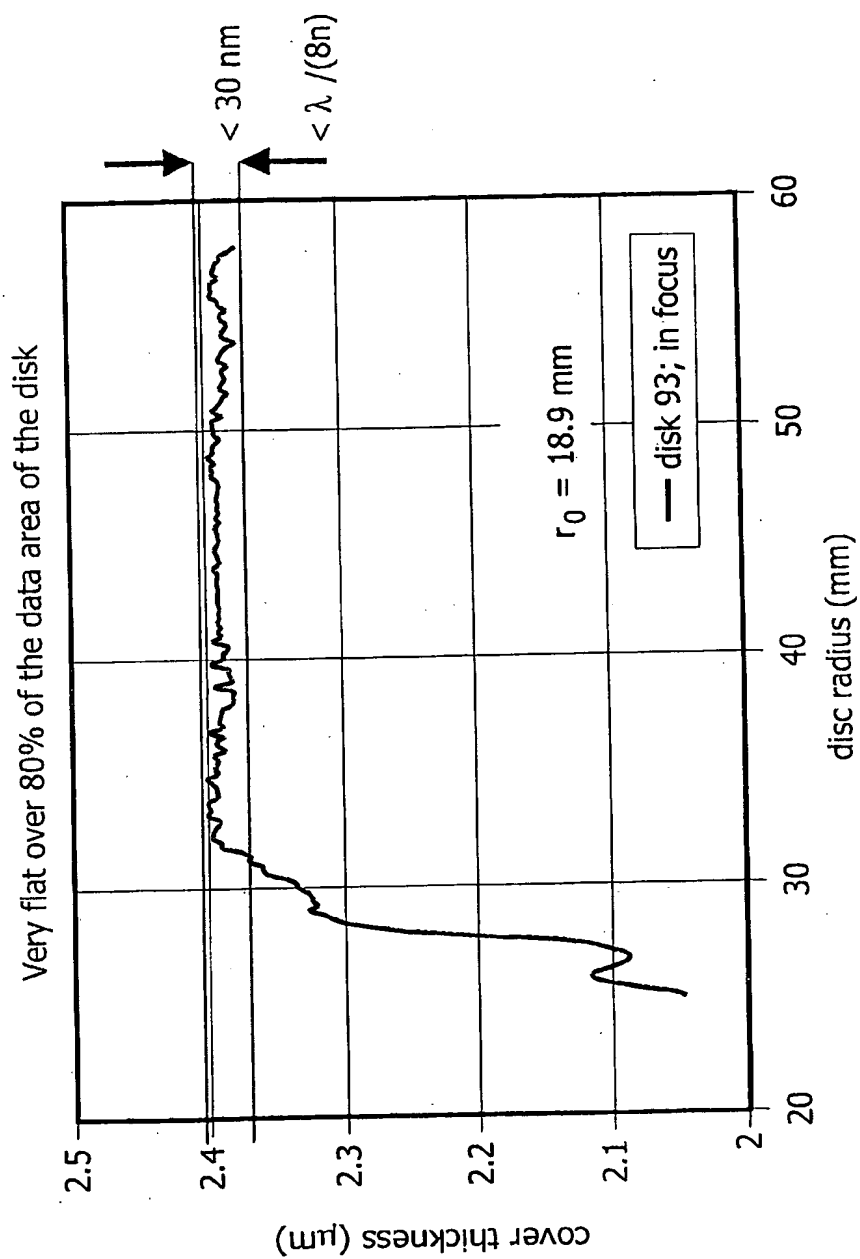


FIG.6

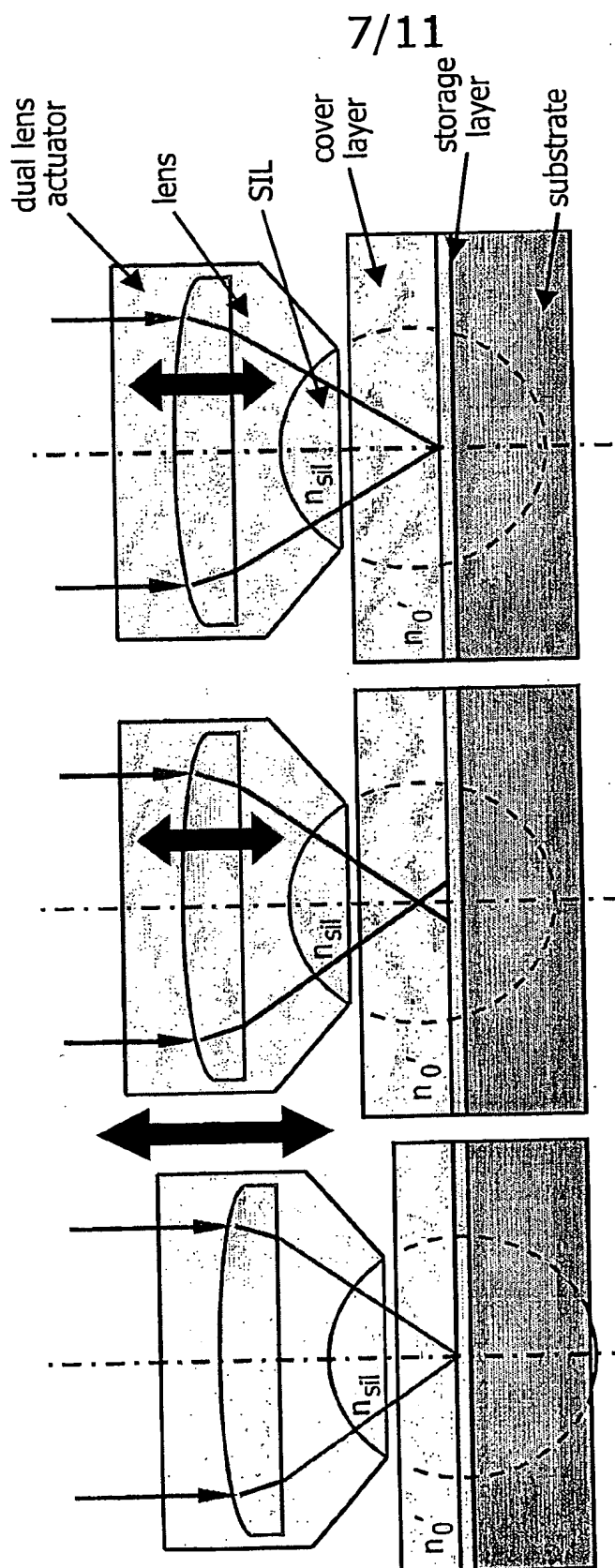


FIG.7C

FIG.7B

FIG.7A

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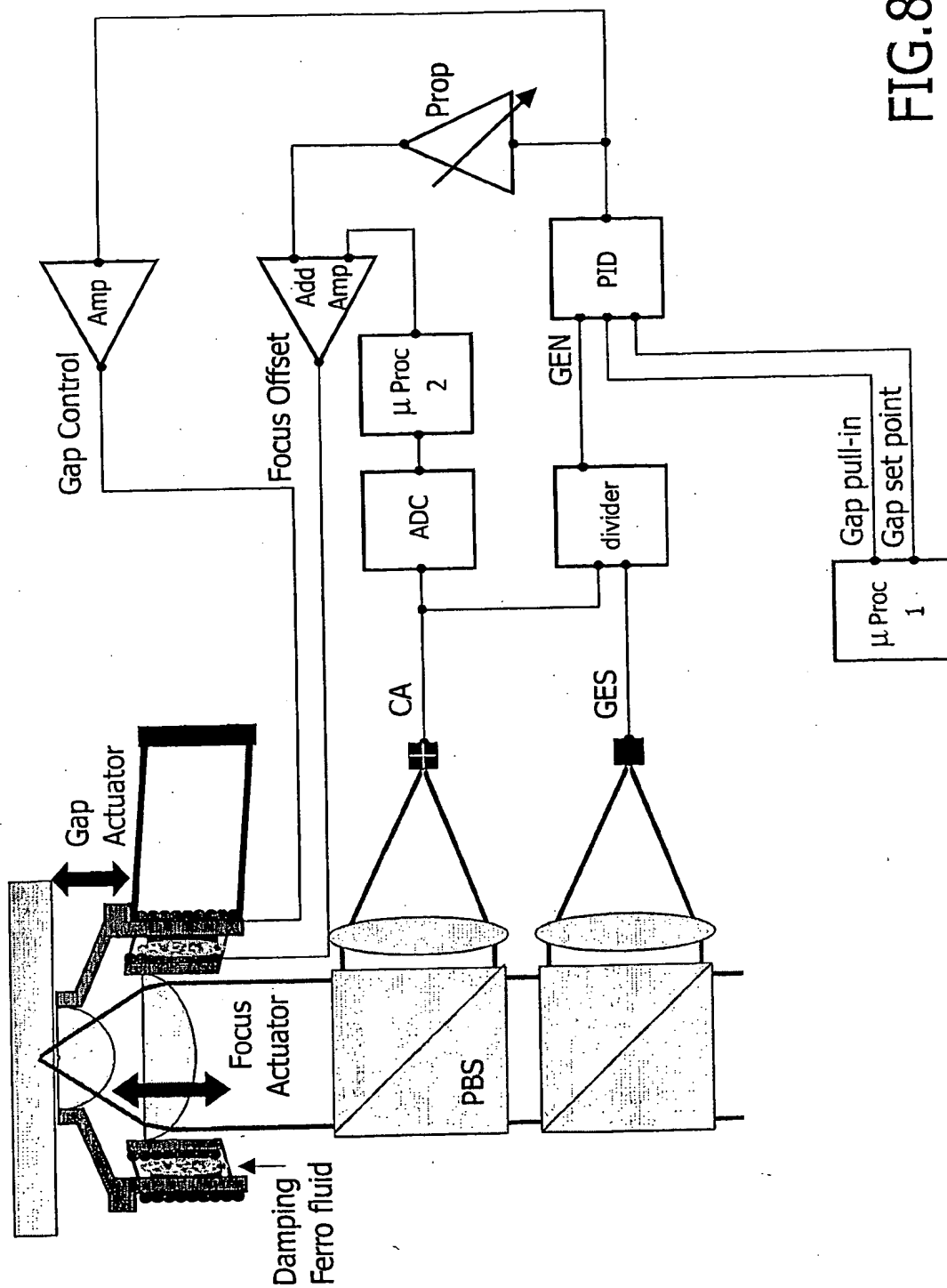


FIG. 8



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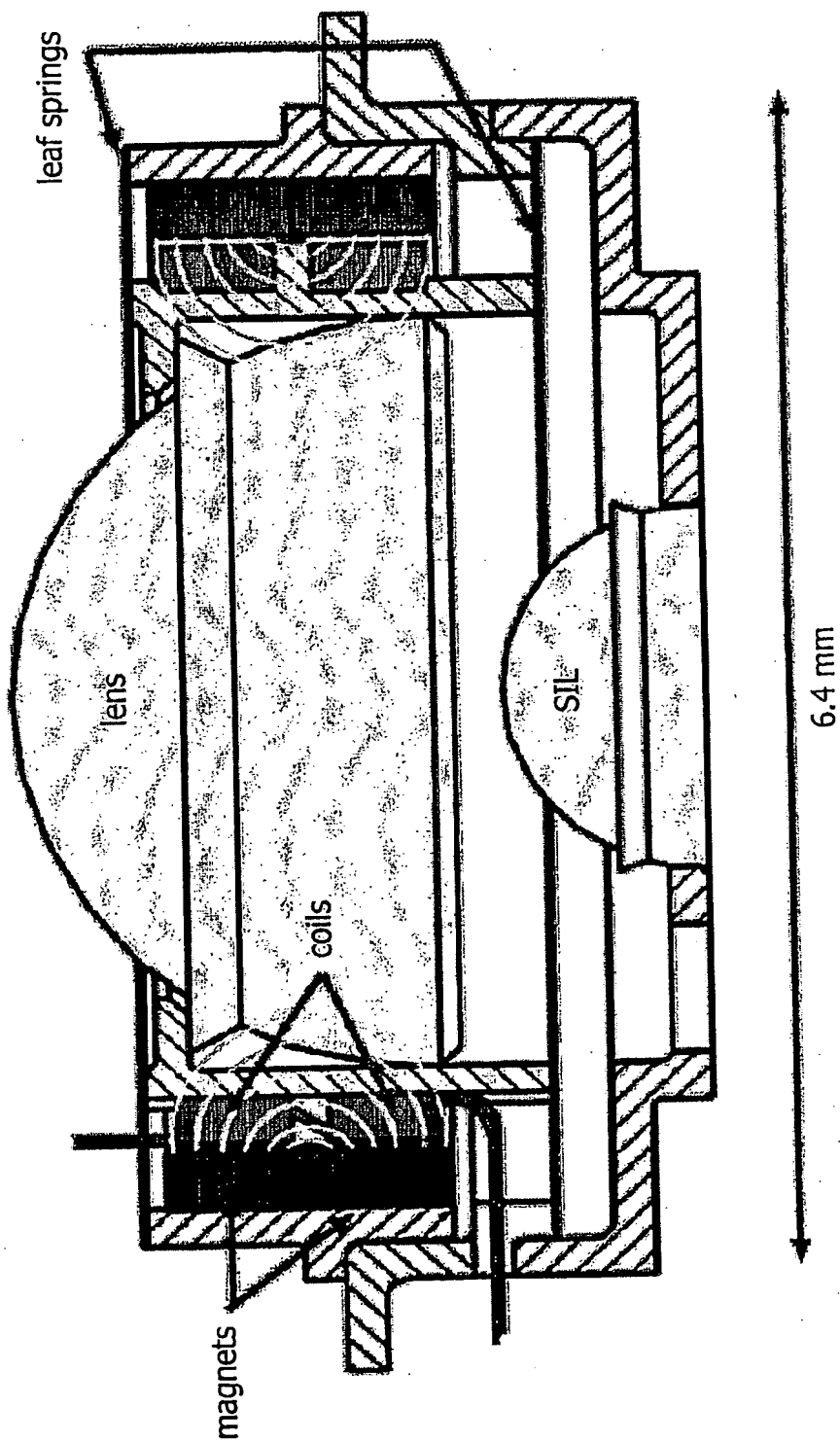
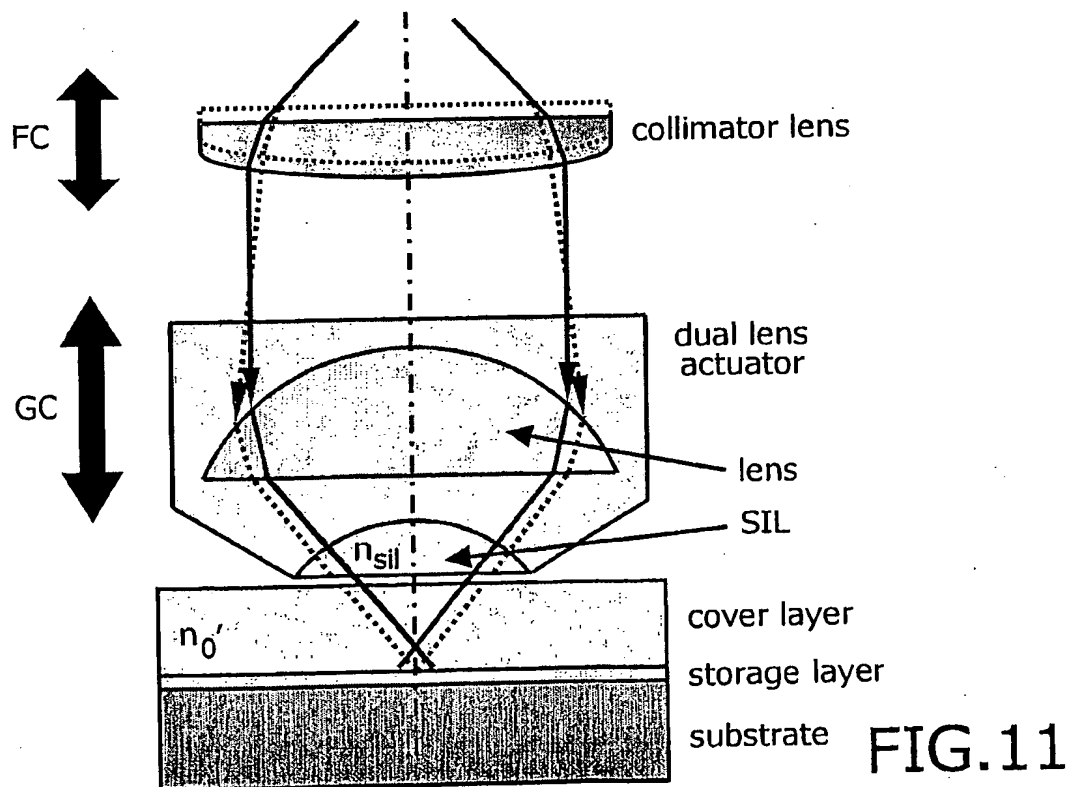
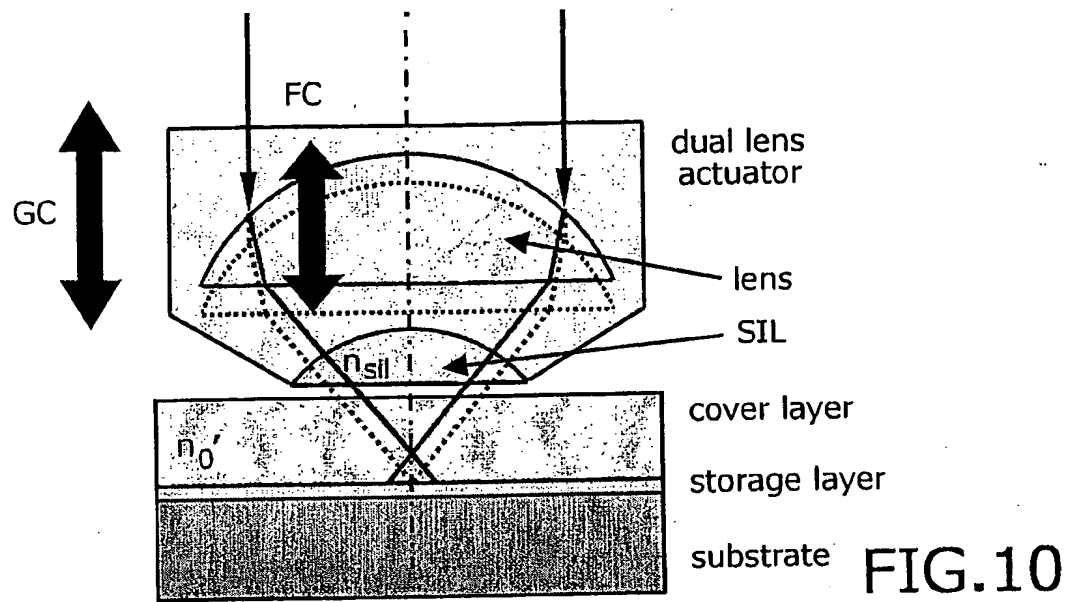


FIG.9

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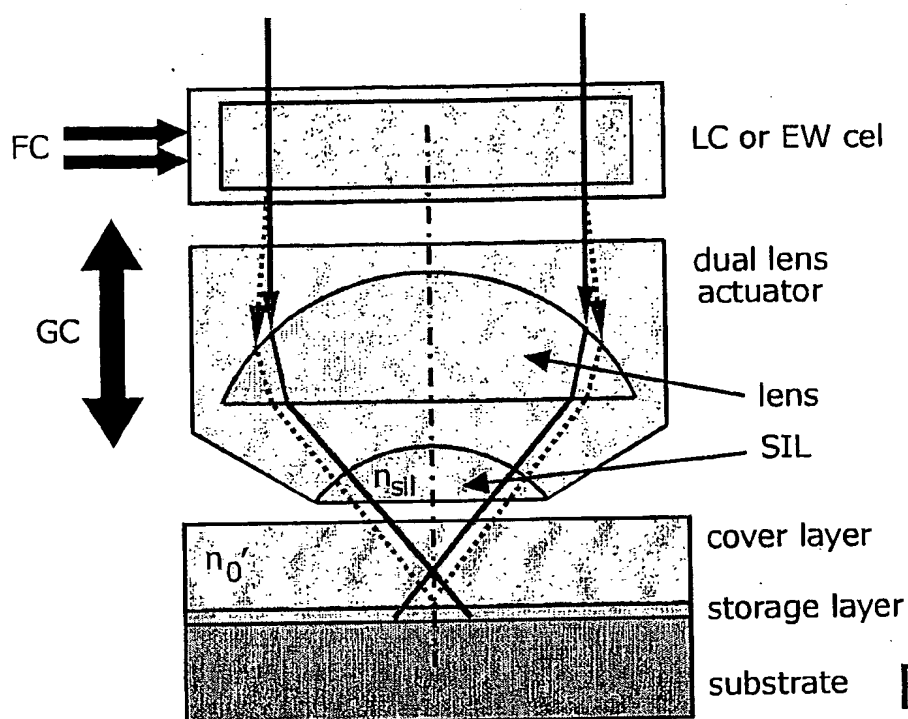


FIG.12

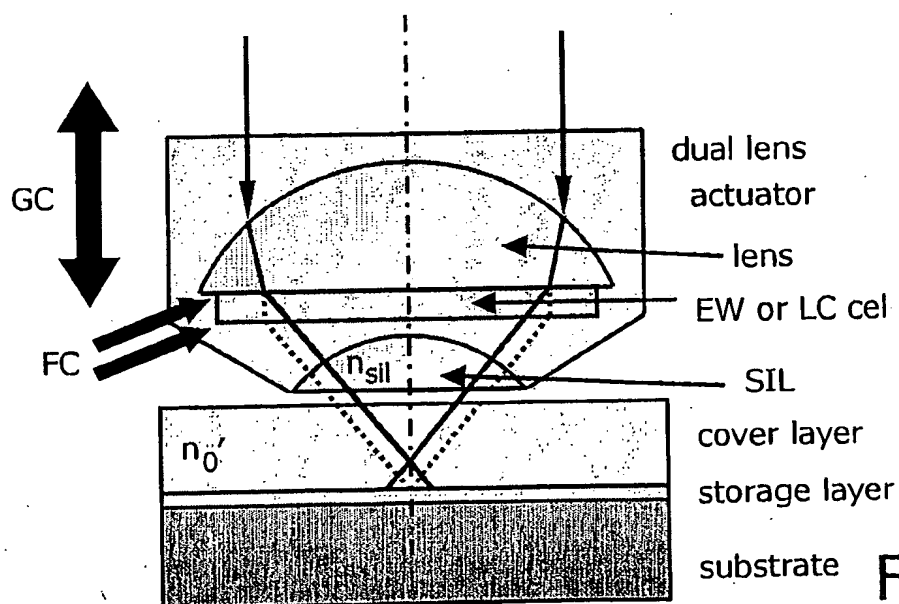


FIG.13